

## 33–560 Checking upper control arm

### Data

Permissible distortion of ball pin for guide joint

0.5

### Special tool

Mounting for guide joint (concentricity test)



116 589 05 31 00

Assembly sleeve for wire clamping ring  
on sleeve of guide joint



116 589 02 14 00

### Conventional tools

Measuring stand

e.g. made by Bosch, D-7000 Stgt. Feuerbach  
order No. 0 601 980 001

Dial gauge A 1 DIN 878

e.g. made by Mahr, D-7300 Esslingen  
order No. 810

### Note

Checkup of upper control arm includes checking  
distortion of ball pin in guide joint.

### Checking

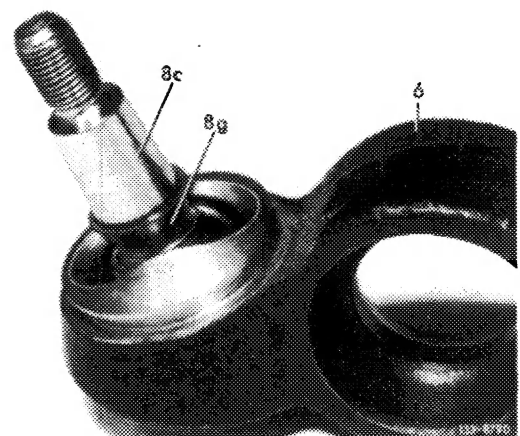
1 Take-off sleeve of guide joint and remove lubricant  
supply (33.2–430).

#### Attention!

Do not wash out guide joint.

2 Check supporting ring of guide joint.

6 Upper control arm  
8c Ball pin  
8g Supporting ring

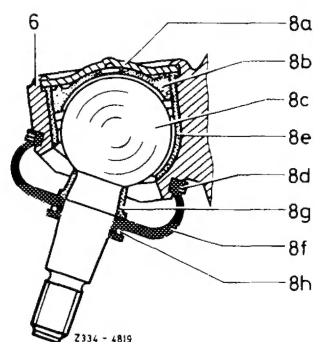


**Note:** The supporting ring may have become damaged by excessive deflection of ball pin. In such a case, renew control arm and check steering knuckle (33.2–410).

Contact marks of control arm on supporting ring are of no significance.

#### Guide joint

- |                       |                       |
|-----------------------|-----------------------|
| 6 Upper control arm   | 8e Ball shell         |
| 8a Closing cover      | 8f Sleeve             |
| 8b Upper ball shell   | 8g Supporting ring    |
| 8c Ball pin           | 8h Wire clamping ring |
| 8d Wire clamping ring |                       |



**Note:** If supporting ring is undamaged, check ball pin for distortion.

3 Clamp mounting ring (051) in a lathe chuck.

4 Introduce ball pin into mounting ring (051) and press-on.

5 Position dial gauge with 1 mm preload at upper control arm and measure distortion of ball pin at approx. 25/min.

If ball pin is distorted beyond permissible dimension, renew control arm and check steering knuckle (33–410).

